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Grade 4-5

$$\begin{array}{r} 2{,}483 \\ -\ \ 639 \\ \hline \end{array}$$

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Answer: 1,844

Grade 4-5

$$\begin{array}{r} 5{,}912 \\ -3{,}643 \\ \hline \end{array}$$

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Answer: 2,269

Grade 4-5

$$\begin{array}{r} 7{,}345 \\ -6{,}740 \\ \hline \end{array}$$

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Answer: 605

Grade 4-5

$$\begin{array}{r} 827 \\ -\ 539 \\ \hline \end{array}$$

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Answer: 288

Grade 4-5

$$\begin{array}{r} 44 \\ \times\ 39 \\ \hline \end{array}$$

© 2000 Nintendo

Answer: 1,716

Grade 4-5

$$\begin{array}{r} 89 \\ \times\ 22 \\ \hline \end{array}$$

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Answer: 1,958

Grade 4-5

$$\begin{array}{r} 543 \\ \times\ \ 64 \\ \hline \end{array}$$

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Answer: 34,752

Grade 4-5

$$\begin{array}{r} 130 \\ \times\ 34 \\ \hline \end{array}$$

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Answer: 4,420

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$$\begin{array}{r} 55 \\ \times\ 22 \\ \hline \end{array}$$

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answer: 1,210

Grade 4-5

$$\begin{array}{r} 62 \\ \times\ 20 \\ \hline \end{array}$$

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answer: 1,240

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$$2\overline{)246} =$$

© 2000 Nintendo

answer: 123

Grade 4-5

$$4\overline{)83} =$$

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answer: 20 R3

Grade 4-5

$$8\overline{)875} =$$

© 2000 Nintendo

answer: 109 R3

Grade 4-5

$$3\overline{)413} =$$

© 2000 Nintendo

answer: 137 R2

Grade 4-5

Which is greater?

$$\frac{2}{3} \text{ or } \frac{5}{3}$$

© 2000 Nintendo

answer: $\frac{5}{3}$

Grade 4-5

Which is less?

$$\frac{6}{7} \text{ or } \frac{2}{7}$$

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answer: $\frac{2}{7}$

Subtraction with More Than Two Regroupings

Ash walked 435 feet into the Viridian Forest. Then he turned around and walked 157 feet back. How far into the forest did Ash end up?

Step 1:
Regroup 1 ten as 10 ones. Subtract.

$$\begin{array}{r} {}^{2}\not{3}\,{}^{15}5 \\ -\,1\;5\;7 \\ \hline \quad\;\; 8 \end{array}$$

Step 2:
Regroup 1 hundred as 10 tens. Subtract.

$$\begin{array}{r} {}^{3}\not{4}\,{}^{12}3\,{}^{15}5 \\ -\,1\;5\;7 \\ \hline \quad\;\; 7\;8 \end{array}$$

Step 3:
Subtract the hundreds.

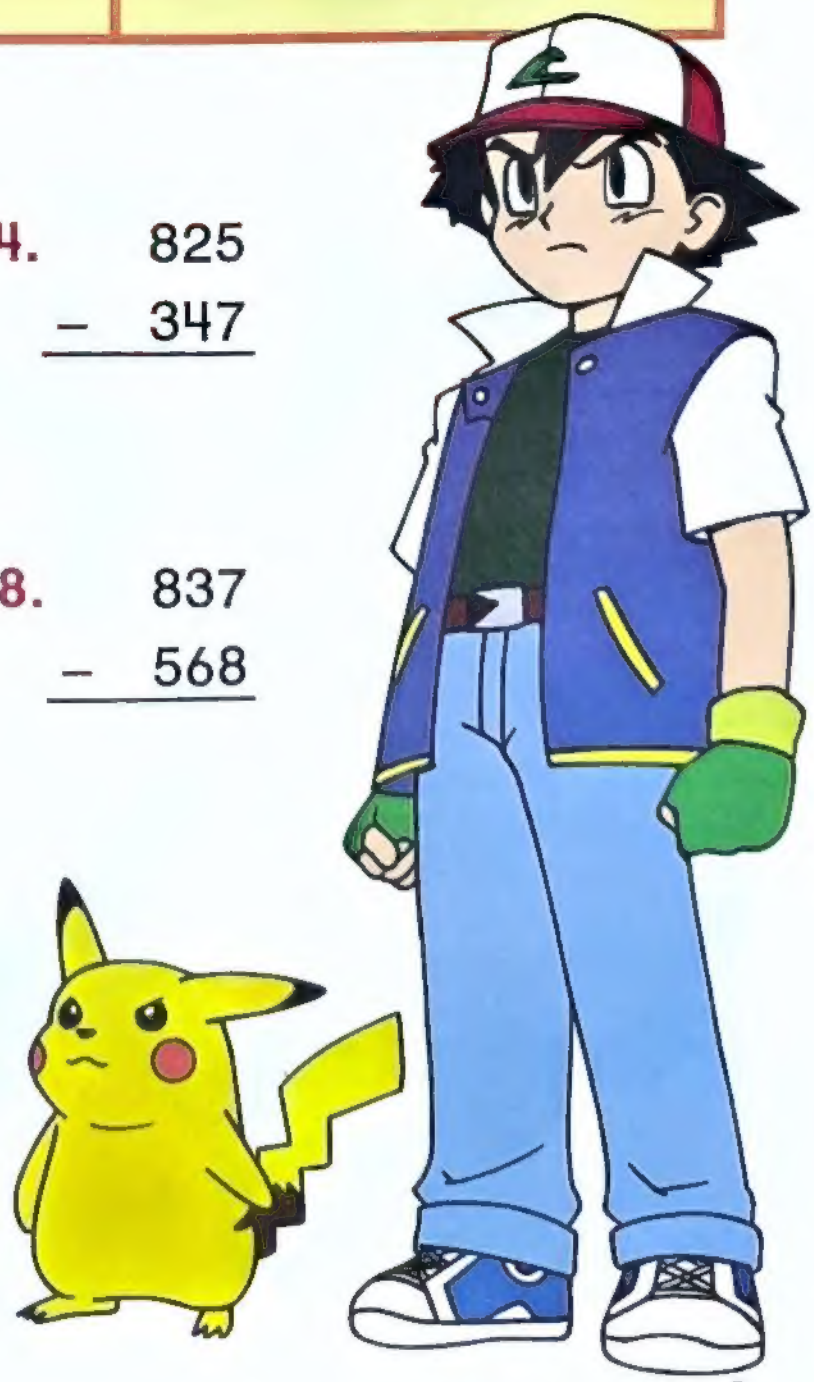
$$\begin{array}{r} {}^{3}\not{4}\,{}^{12}3\,{}^{15}5 \\ -\;\;1\;5\;7 \\ \hline 2\;7\;8 \end{array}$$

✎ Subtract.

1. $\begin{array}{r} 631 \\ -\;\;58 \\ \hline \end{array}$
2. $\begin{array}{r} 160 \\ -\;\;91 \\ \hline \end{array}$
3. $\begin{array}{r} 396 \\ -\;\;97 \\ \hline \end{array}$
4. $\begin{array}{r} 825 \\ -\;347 \\ \hline \end{array}$

5. $\begin{array}{r} 5{,}427 \\ -1{,}368 \\ \hline \end{array}$
6. $\begin{array}{r} 1{,}046 \\ -\;\;857 \\ \hline \end{array}$
7. $\begin{array}{r} 2{,}483 \\ -\;\;639 \\ \hline \end{array}$
8. $\begin{array}{r} 837 \\ -\;\;568 \\ \hline \end{array}$

9. $\begin{array}{r} 3{,}134 \\ -\;\;376 \\ \hline \end{array}$
10. $\begin{array}{r} 5{,}912 \\ -3{,}643 \\ \hline \end{array}$
11. $\begin{array}{r} 640 \\ -\;\;55 \\ \hline \end{array}$



*SKILL: subtraction with two or more regroupings

Hidden Number Puzzle

✎ Subtract. Find and circle your answers in the number box.
You will find answers across, down, and diagonally.

1. 527 − 268	2. 317 − 139	3. 6,347 − 1,459	4. 1,726 − 347
5. 2,497 − 509	6. 214 − 138	7. 4,976 − 2,387	8. 176 − 89
9. 3,041 − 1,273	10. 872 − 637	11. 275 − 97	12. 7,345 − 6,740
13. 3,214 − 1,963	14. 6,214 − 2,185	15. 9,045 − 6,571	16. 1,478 − 1,352

6	1	4	1	7	6	8	1	9
2	4	7	4	8	8	8	7	6
5	8	7	3	1	9	8	8	7
9	0	6	0	2	3	2	3	5
1	1	1	3	5	5	0	5	6
2	3	3	1	1	4	8	0	5
5	7	7	0	4	1	9	9	8
1	9	8	1	9	1	2	6	1
4	0	2	9	6	0	5	1	2

*SKILL: subtraction with two or more regroupings

Checking Subtraction

Team Rocket sold 249 hot dogs at the Pokémon League Tournament. They also sold 973 ice creams. They figured that they had sold 724 more ice creams than hot dogs. Were they right?

You can check subtraction with addition!

Problem	Check	Problem	Check
$\overset{6\ 13}{9\not{7}3}$	724	$1,\overset{3\ 11\ 13}{\not{4}23}$	184
$-\ 249$	$+\ 249$	$-1,239$	$+1,239$
724	973	184	1,423

Hint: If the answer is not the number you are subtracting from, you may have made a mistake. Do the problem again.

Subtract. Check your answers.

1. Problem / Check

423
− 278 + _____

2. Problem / Check

827
− 539 + _____

3. Problem / Check

9,723
−4,809 + _____

4. Problem / Check

3,714
−1,529 + _____

5. Problem / Check

6,714
−3,942 + _____

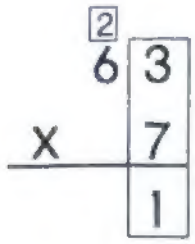
6. Problem / Check

4,807
−2,103 + _____

*SKILL: checking subtraction with addition

Multiplying By One Digit

Nurse Joy has 63 rooms in the Pokémon Center. Each room can hold 7 Pokémon. How many Pokémon can the Pokémon Center hold altogether?



Step 1:

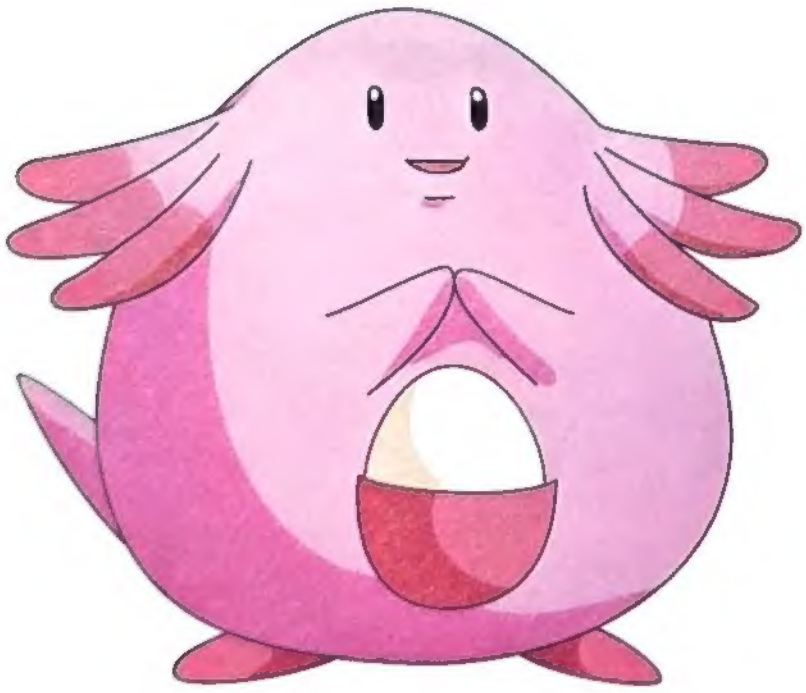
Multiply the ones.
Regroup if necessary.

Step 2:

Multiply the tens.
Add the tens.

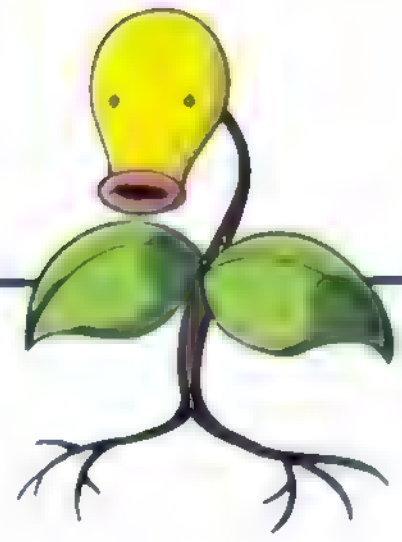
Find the products.

1. 96 x 3	2. 68 x 5	3. 75 x 3	4. 48 x 2	5. 32 x 6	6. 18 x 9
7. 24 x 2	8. 50 x 6	9. 98 x 9			
10. 61 x 3	11. 78 x 6	12. 57 x 4			



*SKILL: multiplying by one digit

Multiplying By 2 or More Digits



```
  622
x  68
4,976
```

Step 1:

Multiply by the number in the ones place.

```
  622
x  68
4,976
37,320
```

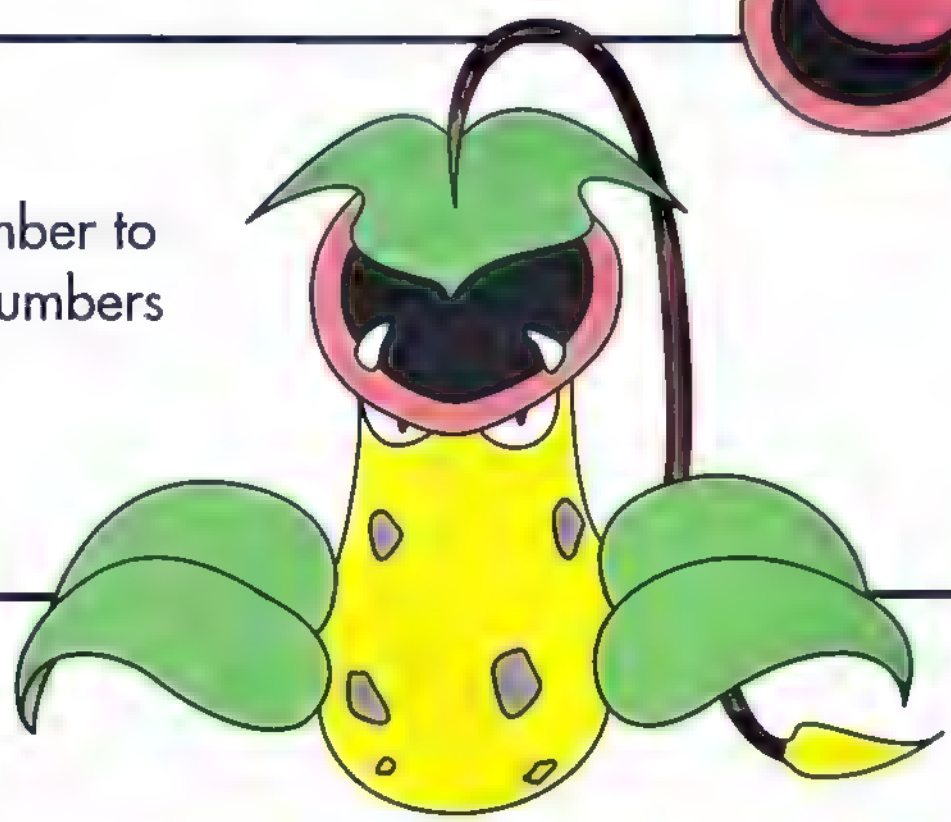
Step 2:

Then multiply by the number in the tens place. Put a zero in the ones place.

```
  622
x  68
4,976
37,320
42,296
```

Step 3:

Add. Remember to keep your numbers lined up.



Multiply.

1. 72 x 25

2. 44 x 39

3. 68 x 72

4. 983 x 36

5. 24 x 15

6. 36 x 36

7. 89 x 22

8. 543 x 64

*SKILL: multiplying by two or more digits

Practice

Multiply. Find the answers to solve the code. Write the letters that are beside your answers on the lines below with the same answers.

1. $\overset{47}{548} \times 29 = 4{,}932 + 10{,}960 = 15{,}892$ | C

2. 78×32 | R

3. 604×39 | N

4. 643×79 | O

5. 105×45 | I

6. 434×29 | S

7. 130×34 | L

8. 444×33 | A

9. 431×64 | N

10. 722×89 | D

11. 131×46 | A

12. 55×22 | N

13. 65×35 | B

14. $.78 \times 21$ | A

15. 62×20 | I

Where does Ash battle for a Volcano Badge?

C							
15,892	1,240	27,584	23,556	6,026	2,275	1,638	2,496

4,725	12,586	4,420	14,652	1,210	64,258

*SKILL: multiplying by two or more digits

Review of Basic Division Facts

Divide.

1. $21 \div 3 =$_____
2. $81 \div 9 =$_____
3. $48 \div 8 =$_____
4. $54 \div 6 =$_____
5. $63 \div 9 =$_____
6. $36 \div 6 =$_____
7. $20 \div 4 =$_____
8. $28 \div 7 =$_____
9. $45 \div 5 =$_____
10. $18 \div 9 =$_____
11. $49 \div 7 =$_____
12. $30 \div 5 =$_____
13. $15 \div 3 =$_____
14. $3 \div 1 =$_____
15. $27 \div 9 =$_____
16. $25 \div 5 =$_____
17. $35 \div 7 =$_____
18. $12 \div 2 =$_____
19. $35 \div 7 =$_____
20. $9 \div 9 =$_____
21. $64 \div 8 =$_____
22. $12 \div 4 =$_____
23. $45 \div 9 =$_____
24. $18 \div 3 =$_____
25. $36 \div 9 =$_____
26. $16 \div 4 =$_____
27. $56 \div 7 =$_____
28. $48 \div 6 =$_____
29. $24 \div 4 =$_____
30. $54 \div 6 =$_____

*SKILL: solving basic division facts

Practice

Multiply or Divide.

1. 7 x 4 =_____

2. 54 ÷ 6 =_____

3. 35 ÷ 7 =_____

4. 12 ÷ 4 =_____

5. 5 x 7 =_____

6. 15 ÷ 3 =_____

7. 18 ÷ 6 =_____

8. 24 ÷ 3 =_____

9. 8 x 4 =_____

10. 1 x 1 =_____

11. 7 x 3 =_____

12. 6 x 6 =_____

13. 36 ÷ 6 =_____

14. 4 x 5 =_____

15. 16 ÷ 2 =_____

16. 5 x 0 =_____

17. 7 x 4 =_____

18. 8 x 6 =_____

19. 81 ÷ 9 =_____

20. 49 ÷ 7 =_____

21. 63 ÷ 7 =_____

22. 6 x 6 =_____

23. 9 x 4 =_____

24. 8 x 5 =_____

25. 15 ÷ 3 =_____

26. 5 x 6 =_____

27. 9 x 9 =_____

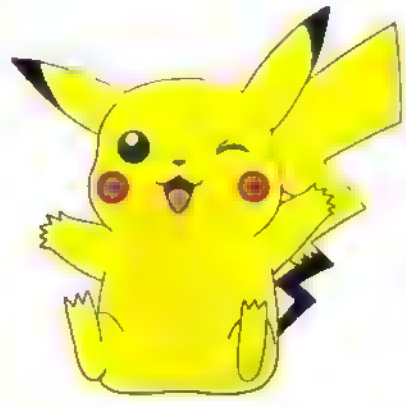
28. 42 ÷ 7 =_____

29. 12 ÷ 2 =_____

*SKILL: review of basic multiplication and division problems

Practice

6 Pokémon Trainers each have the same number of Pokémon. If there are a total of 18 Pokémon, how many does each Trainer have? Every division problem has a divisor, dividend, and a quotient.



$$\begin{array}{r} \text{3 quotient} \\ \text{divisor } 6\overline{)\ 18\ \text{dividend}} \end{array}$$

✎ Divide.

1.

	÷ 5
10	
0	
20	
35	
15	
45	
25	
30	

2.

	÷ 4
4	
36	
12	
20	
0	
16	
28	
8	

3.

	÷ 2
6	
16	
12	
4	
2	
10	
8	
14	

4.

	÷ 9
36	
9	
54	
81	
0	
72	
45	
27	

5.

	÷ 8
8	
0	
16	
24	
40	
32	
64	
48	

6.

	÷ 7
42	
7	
63	
28	
49	
21	
56	
35	

*SKILL: review of basic division facts

Division with Zeros in the Quotient

To make dividing easy, follow these steps:

Step 1: Divide

$$8\overline{)\,81}\qquad 1$$

Divide the tens.
8 tens ÷ 8 = 1

Step 2: Multiply

$$\begin{array}{r} 1 \\ 8\overline{)\,81} \\ 8 \end{array}$$

8 x 1 = 8
Write the 8 under the 8.

Step 3: Subtract

$$\begin{array}{r} 1 \\ 8\overline{)\,81} \\ 8 \\ \hline 01 \end{array}$$

8 – 8 = 0.
Bring down the 1.

Step 4: Divide

$$\begin{array}{r} 10 \\ 8\overline{)\,81} \\ 8 \\ \hline 01 \end{array}$$

Divide the ones.
1 ÷ 8 = 0.

Step 5: Multiply and Subtract

$$\begin{array}{r} 10\ \text{R}1 \\ 8\overline{)\,81} \\ 8 \\ \hline 01 \\ -\ 0 \\ \hline 1 \end{array}$$

8 x 0 = 0 Write the 0 under the 1.
1 – 0 = 1 The remainder is 1.

Put R1 next to the 10 in the quotient.

✎ Divide.

1. $4\overline{)\,83}$
2. $5\overline{)\,505}$
3. $5\overline{)\,54}$
4. $4\overline{)\,408}$
5. $7\overline{)\,74}$
6. $8\overline{)\,875}$
7. $2\overline{)\,81}$
8. $4\overline{)\,601}$
9. $7\overline{)\,96}$

*SKILL: dividing with zero in two and three-digit quotients

Two-Digit Quotients

Professor Oak saw a flock of 82 wild Spearow sitting in 3 trees. How many Spearow were in each tree?

Step 1: Divide

$$3\overline{)82}$$ (2 above)

Divide the tens.
8 tens ÷ 3 = 2
and some left over.

Step 2: Multiply

$$3\overline{)82}$$ (2 above, 6 below)

2 x 3 = 6
Write the 6
under the 8.

Step 3: Subtract

$$3\overline{)82}$$ (2 above, 6, 22 below)

8 – 6 = 2.
Bring down
the 2.

Step 4: Divide

$$3\overline{)82}$$ (27 above, 6, 22 below)

Divide the ones.
22 ÷ 3 = 7
and some left over.

Step 5: Multiply and Subtract

$$3\overline{)82}$$ (27 R 1 above, 6, 22, – 21, 1 below)

3 x 7 = 21 Write the 21 under the 22.
22 – 21 = 1 The remainder is 1.

Put R1 next to the 27 in the quotient.

Divide.

1. $3\overline{)58}$
2. $4\overline{)95}$
3. $5\overline{)76}$
4. $5\overline{)69}$
5. $3\overline{)73}$
6. $7\overline{)82}$
7. $3\overline{)95}$
8. $4\overline{)46}$
9. $9\overline{)67}$
10. $3\overline{)49}$
11. $2\overline{)75}$
12. $4\overline{)90}$

*SKILL: dividing by one digit to get two-digit quotients

Three-Digit Quotients

You can check your answers in division.

$$\begin{array}{r} 192\ R\ 1 \\ 4\overline{)769} \end{array}$$

Multiply the quotient by the divisor. Add the remainder. Your answer should match the quotient.

$$\begin{array}{r} 192 \\ \times\quad 4 \\ \hline 768 \\ +\quad 1 \\ \hline 769 \end{array}$$

Divide. Check your answers.

1. $2\overline{)387}$ x ____ + ____

2. $2\overline{)841}$ x ____ + ____

3. $2\overline{)246}$ x ____ + ____

4. $3\overline{)748}$ x ____ + ____

5. $6\overline{)761}$ x ____ + ____

6. $4\overline{)537}$ x ____ + ____

7. $5\overline{)945}$ x ____ + ____

8. $3\overline{)413}$ x ____ + ____

9. $7\overline{)820}$ x ____ + ____

10. $4\overline{)622}$ x ____ + ____

*SKILL: dividing with one-digit divisors and two or three-digit dividends

Practice

Divide. Use your answers to find out what the Pokémon Lab can use to clone a new Aerodactyl.

1. $5\overline{)627}$ **=O**

2. $7\overline{)889}$ **=R**

3. $6\overline{)690}$ **=D**

4. $6\overline{)39}$ **=A**

5. $3\overline{)49}$ **=U**

6. $2\overline{)470}$ **=E**

7. $6\overline{)1{,}893}$ **=S**

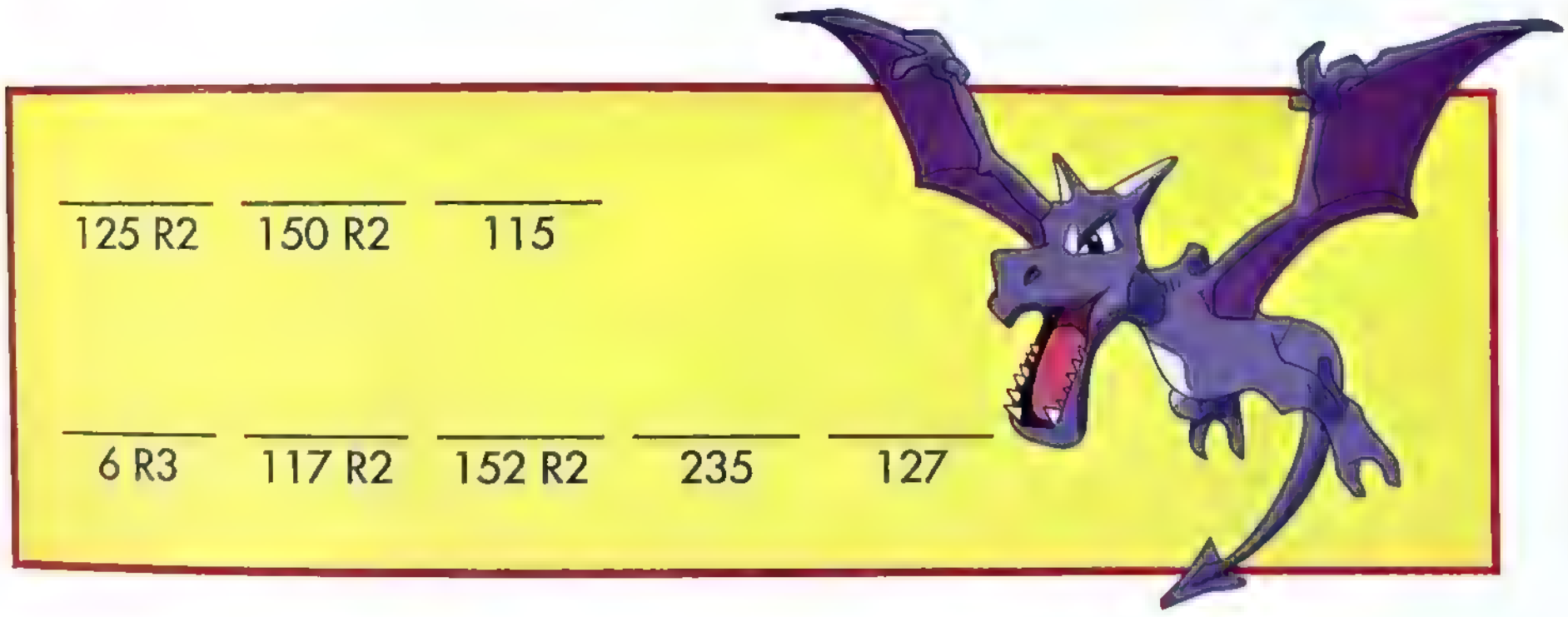
8. $5\overline{)587}$ **=M**

9. $7\overline{)390}$ **=S**

10. $6\overline{)914}$ **=B**

11. $4\overline{)602}$ **=L**

12. $6\overline{)843}$ **=I**



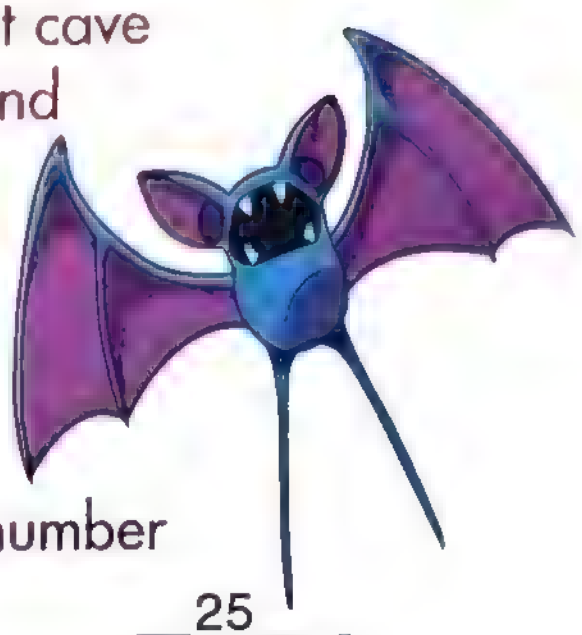
125 R2 150 R2 115

6 R3 117 R2 152 R2 235 127

*SKILL: dividing with one-digit divisors and two or three-digit dividends

Averages

Brock wanted to find out on average how many Zubats lived in each of 3 caves. In the first cave he counted 23, he counted 35 in the second cave, and 17 in the last.



To find the average:

Step 1: Add.

$$\begin{array}{r} 23 \\ 35 \\ +\,17 \\ \hline 75 \end{array}$$

Step 2: Divide by the number of addends.

$$\begin{array}{r} 23 \\ 35 \\ +\,17 \\ \hline 75 \end{array}$$

3 addends

$$\begin{array}{r} 25 \\ 3\overline{)\,75} \\ -\,6 \\ \hline 15 \\ 15 \\ \hline 00 \end{array}$$

25 is the average

✎ Find the averages.

1. $\begin{array}{r} 12 \\ 21 \\ +\,15 \\ \hline \end{array}$ $3\overline{)\quad}$

2. $\begin{array}{r} 120 \\ 200 \\ +\,430 \\ \hline \end{array}$ $3\overline{)\quad}$

3. $\begin{array}{r} 104 \\ 97 \\ +\,27 \\ \hline \end{array}$ $3\overline{)\quad}$

4. $\begin{array}{r} 21 \\ 23 \\ 24 \\ +\,8 \\ \hline \end{array}$ $4\overline{)\quad}$

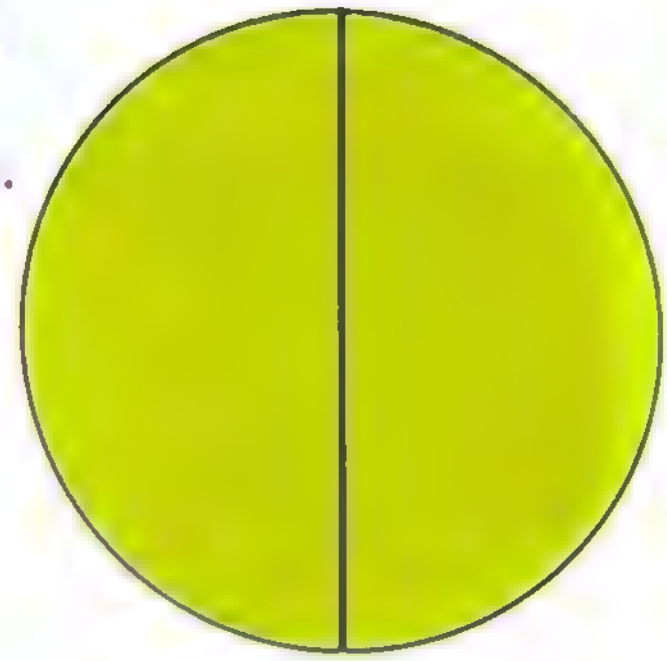
5. $\begin{array}{r} 129 \\ 132 \\ 118 \\ 140 \\ +\,121 \\ \hline \end{array}$ $5\overline{)\quad}$

6. $\begin{array}{r} 59 \\ 83 \\ 94 \\ 95 \\ +\,39 \\ \hline \end{array}$ $5\overline{)\quad}$

*SKILL: finding averages

Finding Fractions

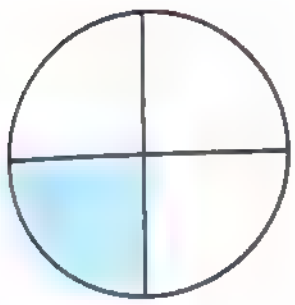
The circle is divided into two equal pieces.
Each piece is $\frac{1}{2}$ of the whole circle.



numerator → 1
denominator → 2

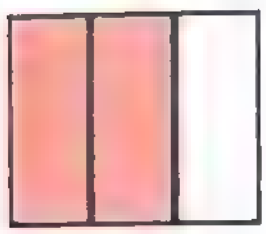
$\frac{1}{2}$ is a fraction.

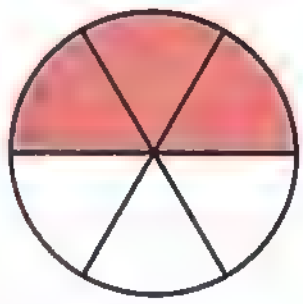
✎ Write a fraction for the shaded area.

1. 

2.

3.

4. 

5. 

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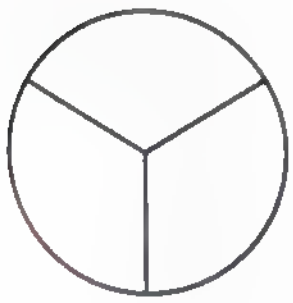
7. 

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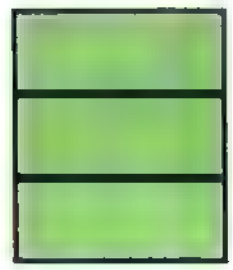
9. 

*SKILL: understanding and writing fractions

Comparing Fractions

Blastoise swam $\frac{6}{10}$ of a mile.
Lapras swam $\frac{4}{10}$ of a mile.

Who swam farther?

$\frac{6}{10}$ $\frac{4}{10}$ 6 is greater than 4. $\frac{6}{10} > \frac{4}{10}$

Blastoise swam farther.

✎ Compare the fractions using $>$, $<$, and $=$.

1. $\frac{1}{6}$ $\frac{7}{6}$

2. $\frac{3}{4}$ $\frac{2}{4}$

3. $\frac{8}{5}$ $\frac{9}{5}$

4. $\frac{5}{9}$ $\frac{4}{9}$

5. $\frac{1}{2}$ $\frac{1}{2}$

6. $\frac{1}{3}$ $\frac{2}{3}$

7. $\frac{8}{8}$ $\frac{4}{8}$

8. $\frac{7}{9}$ $\frac{6}{9}$

9. $\frac{2}{7}$ $\frac{1}{7}$

10. $\frac{2}{4}$ $\frac{3}{4}$

11. $\frac{3}{5}$ $\frac{2}{5}$

12. $\frac{6}{9}$ $\frac{8}{9}$

13. $\frac{3}{4}$ $\frac{1}{4}$

14. $\frac{5}{7}$ $\frac{7}{7}$

15. $\frac{3}{6}$ $\frac{3}{6}$

16. $\frac{5}{9}$ $\frac{8}{9}$

17. $\frac{6}{7}$ $\frac{2}{7}$

18. $\frac{4}{5}$ $\frac{3}{5}$

19. $\frac{6}{7}$ $\frac{9}{7}$

20. $\frac{2}{3}$ $\frac{5}{3}$

21. $\frac{3}{8}$ $\frac{1}{8}$

22. $\frac{9}{9}$ $\frac{9}{9}$

23. $\frac{4}{3}$ $\frac{3}{3}$

24. $\frac{6}{9}$ $\frac{9}{9}$

*SKILL: comparing fractions with the same denominator

Equivalent Fractions

Misty says that $\frac{2}{3}$ of the Pokémon are Water Pokémon. Ash says that $\frac{4}{6}$ of the Pokémon are Water Pokémon.

They are both right!

You can multiply both numerator and denominator by the same number to find an equal fraction.

$$\frac{2}{3} \times \frac{2}{2} = \frac{4}{6}$$

You can divide both numerator and denominator by the same number to get an equal fraction.

$$\frac{4}{6} \div \frac{2}{2} = \frac{2}{3}$$

✎ Find equal fractions by multiplying.

1. $\frac{1}{2} = \frac{2}{}$
2. $\frac{2}{5} = \frac{}{10}$
3. $\frac{3}{4} = \frac{}{32}$
4. $\frac{6}{9} = \frac{12}{}$
5. $\frac{5}{10} = \frac{}{50}$
6. $\frac{7}{9} = \frac{21}{}$
7. $\frac{4}{5} = \frac{24}{}$
8. $\frac{7}{8} = \frac{}{72}$

✎ Find equal fractions by dividing.

9. $\frac{6}{27} = \frac{}{9}$
10. $\frac{40}{60} = \frac{2}{}$
11. $\frac{21}{30} = \frac{7}{}$
12. $\frac{21}{24} = \frac{7}{}$
13. $\frac{3}{12} = \frac{}{4}$
14. $\frac{32}{36} = \frac{8}{}$
15. $\frac{16}{32} = \frac{}{2}$
16. $\frac{64}{72} = \frac{8}{}$

*SKILL: finding equivalent fractions

Practice

Find the equivalent fraction using multiplication or division.

1. $\frac{3}{4} = \frac{6}{\quad}$
2. $\frac{6}{8} = \frac{\quad}{24}$
3. $\frac{9}{27} = \frac{\quad}{3}$
4. $\frac{32}{36} = \frac{\quad}{9}$
5. $\frac{54}{63} = \frac{6}{\quad}$
6. $\frac{2}{3} = \frac{16}{\quad}$
7. $\frac{1}{2} = \frac{\quad}{100}$
8. $\frac{1}{3} = \frac{8}{\quad}$
9. $\frac{72}{81} = \frac{8}{\quad}$
10. $\frac{1}{4} = \frac{\quad}{24}$
11. $\frac{5}{6} = \frac{25}{\quad}$
12. $\frac{12}{24} = \frac{\quad}{2}$
13. $\frac{7}{8} = \frac{\quad}{16}$
14. $\frac{4}{10} = \frac{2}{\quad}$
15. $\frac{12}{48} = \frac{\quad}{4}$
16. $\frac{3}{6} = \frac{\quad}{30}$
17. $\frac{16}{28} = \frac{8}{\quad}$
18. $\frac{2}{7} = \frac{\quad}{35}$
19. $\frac{15}{50} = \frac{3}{\quad}$
20. $\frac{1}{3} = \frac{4}{\quad}$
21. $\frac{1}{7} = \frac{\quad}{49}$
22. $\frac{16}{32} = \frac{\quad}{4}$
23. $\frac{10}{60} = \frac{1}{\quad}$
24. $\frac{5}{8} = \frac{35}{\quad}$

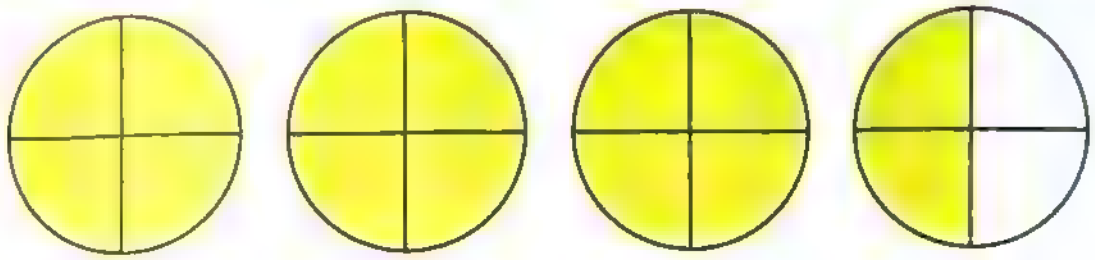
*SKILL: practice finding equivalent fractions

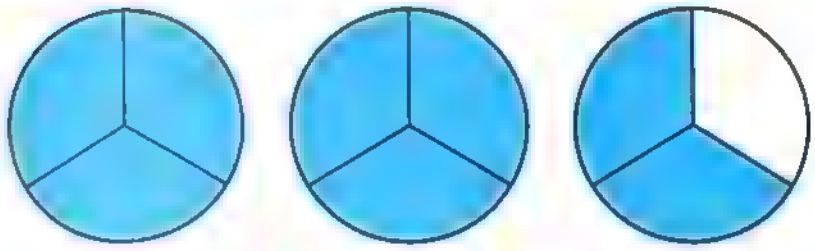
Mixed Numbers

$2\frac{1}{3}$ is a mixed number. A mixed number shows a whole number plus a fraction.

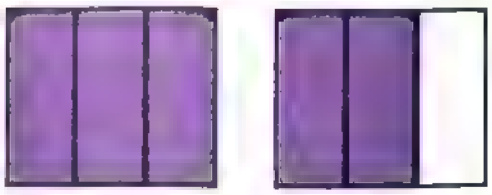
How many thirds? There are **7**, so $\mathbf{2}\frac{1}{3} = \frac{7}{3}$.

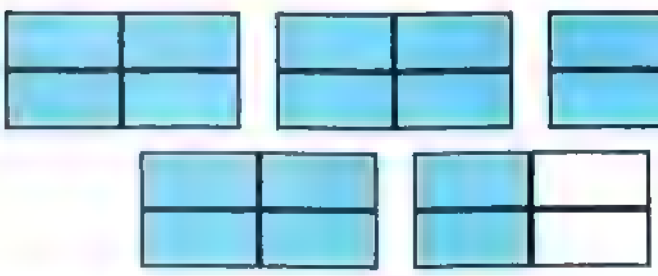
Write a mixed number for the pictures below.

1.  = _____

2.  = _____

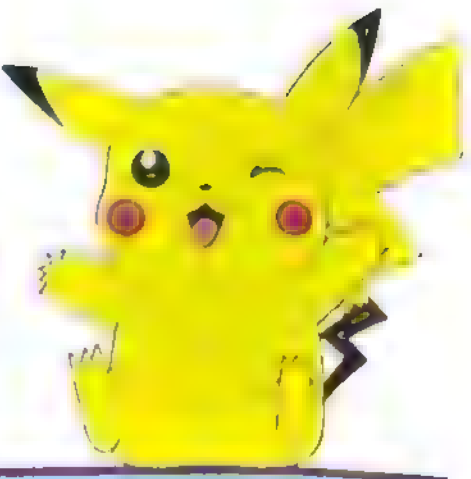
3. = _____

4.  = _____

5.  = _____

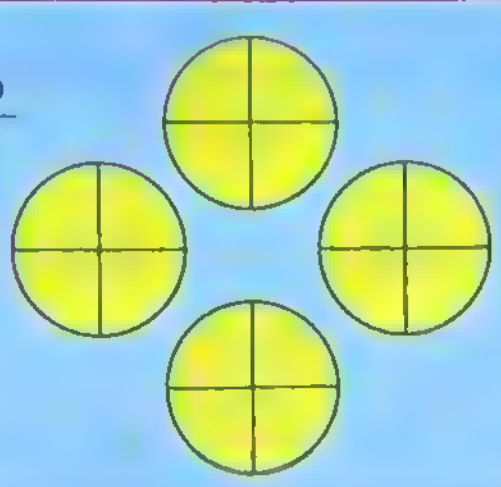
*SKILL: writing mixed numbers

Improper Fractions



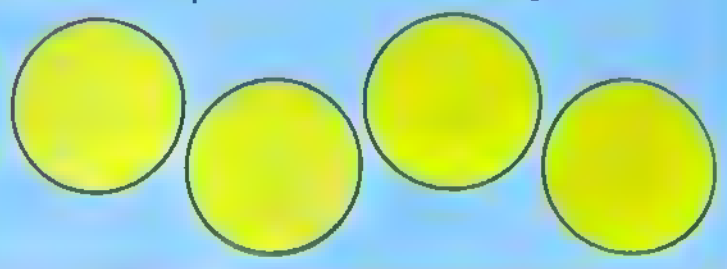
A fraction where the numerator is larger than the denominator is called an improper fraction and should be changed to a whole number or a mixed number.

$\frac{16}{4}$



Divide the numerator by the denominator.

$$4\overline{)16} \quad \frac{4}{4}$$



✎ Change the improper fractions to whole or mixed numbers. The remainder becomes the numerator.

1. $\frac{8}{7} = 1\frac{1}{7}$
2. $\frac{13}{4} =$ _____
3. $\frac{4}{2} =$ _____
4. $\frac{9}{3} =$ _____
5. $\frac{17}{8} =$ _____
6. $\frac{25}{4} =$ _____
7. $\frac{11}{6} =$ _____
8. $\frac{7}{3} =$ _____
9. $\frac{28}{3} =$ _____
10. $\frac{21}{6} =$ _____
11. $\frac{17}{5} =$ _____
12. $\frac{29}{8} =$ _____
13. $\frac{9}{7} =$ _____
14. $\frac{38}{6} =$ _____
15. $\frac{9}{2} =$ _____
16. $\frac{34}{4} =$ _____
17. $\frac{11}{3} =$ _____
18. $\frac{74}{9} =$ _____

*SKILL: changing improper fractions to whole or mixed numbers

Adding Fractions and Mixed Numbers

Marril tracked a Rhydon for $\frac{3}{7}$ of a mile. Venonat tracked the Rhydon for $\frac{2}{7}$ of a mile. How far was the Rhydon tracked all together?

If the denominators are the same, add the numerators and place the answer over the denominator.

$\frac{\boxed{3}}{7} + \frac{\boxed{2}}{7} = \frac{\boxed{5}}{7}$ They hiked $\frac{5}{7}$ of a mile in all.

Mixed numbers are added the same way, but remember to add the whole numbers.

$$\begin{array}{r} 2\frac{\boxed{1}}{4} \\ +1\frac{\boxed{2}}{4} \\ \hline 3\frac{\boxed{3}}{4} \end{array}$$

Add.

1. $\frac{3}{8} + \frac{2}{8} =$ _____

2. $\frac{1}{7} + \frac{4}{7} =$ _____

3. $\frac{3}{9} + \frac{2}{9} =$ _____

4. $\frac{3}{9} + \frac{4}{9} =$ _____

5. $\frac{2}{5} + \frac{2}{5} =$ _____

6. $\frac{4}{6} + \frac{1}{6} =$ _____

7. $$\begin{array}{r} 7\frac{2}{8} \\ +2\frac{4}{8} \\ \hline \end{array}$$

8. $$\begin{array}{r} 1\frac{2}{5} \\ +4\frac{1}{5} \\ \hline \end{array}$$

9. $$\begin{array}{r} 3\frac{3}{7} \\ +1\frac{1}{7} \\ \hline \end{array}$$

*SKILL: adding fractions and mixed numbers with the same denominator

Practice

Add.

1. $\begin{array}{r} \frac{1}{4} \\ +\ \frac{2}{4} \\ \hline \end{array}$

2. $\begin{array}{r} \frac{4}{16} \\ +\ \frac{8}{16} \\ \hline \end{array}$

3. $\begin{array}{r} 3\frac{2}{9} \\ +\ 2\frac{4}{9} \\ \hline \end{array}$

4. $\begin{array}{r} \frac{1}{10} \\ +\ \frac{3}{10} \\ \hline \end{array}$

5. $\begin{array}{r} 4\frac{7}{20} \\ +\ 3\frac{6}{20} \\ \hline \end{array}$

6. $\begin{array}{r} \frac{2}{8} \\ +\ \frac{3}{8} \\ \hline \end{array}$

7. $\begin{array}{r} \frac{3}{14} \\ +\ \frac{5}{14} \\ \hline \end{array}$

8. $\begin{array}{r} 7\frac{3}{10} \\ +\ 2\frac{4}{10} \\ \hline \end{array}$

9. $\begin{array}{r} 2\frac{1}{4} \\ +\ 3\frac{2}{4} \\ \hline \end{array}$

10. $\begin{array}{r} \frac{7}{14} \\ +\ \frac{3}{14} \\ \hline \end{array}$

11. $\begin{array}{r} \frac{4}{9} \\ +\ \frac{3}{9} \\ \hline \end{array}$

12. $\begin{array}{r} 4\frac{7}{12} \\ +\ 2\frac{1}{12} \\ \hline \end{array}$

13. $\begin{array}{r} 13\frac{4}{15} \\ +\ 7\frac{6}{15} \\ \hline \end{array}$

14. $\begin{array}{r} \frac{1}{9} \\ +\ \frac{2}{9} \\ \hline \end{array}$

15. $\begin{array}{r} 5\frac{3}{8} \\ +\ 4\frac{2}{8} \\ \hline \end{array}$

16. $\begin{array}{r} 4\frac{1}{6} \\ +\ 3\frac{2}{6} \\ \hline \end{array}$

17. $\begin{array}{r} 14\frac{7}{15} \\ +\ 6\frac{7}{15} \\ \hline \end{array}$

18. $\begin{array}{r} 3\frac{4}{8} \\ +\ \frac{2}{8} \\ \hline \end{array}$

19. $\begin{array}{r} \frac{3}{7} \\ +\ \frac{3}{7} \\ \hline \end{array}$

20. $\begin{array}{r} 4\frac{1}{6} \\ +\ 1\frac{3}{6} \\ \hline \end{array}$

*SKILL: adding fractions and mixed numbers with the same denominator

Subtracting Fractions

$$\begin{array}{r} \boxed{7} \\ 8 \\ -\ \boxed{3} \\ 8 \\ \hline \boxed{4} \\ 8 \end{array}$$

If the denominators are the same, subtract the numerators and place the answer over the denominator.

$7 - 3 = 4$

Mixed numbers are subtracted the same way but remember to subtract the whole numbers.

$$\begin{array}{r} 4\ \boxed{6} \\ \quad 9 \\ -1\ \boxed{2} \\ \quad 9 \\ \hline 3\ \boxed{4} \\ \quad 9 \end{array}$$

Subtract.

1. $4\frac{6}{12} - 2\frac{4}{12}$ = _____

2. $\frac{13}{15} - \frac{8}{15}$ = _____

3. $\frac{4}{10} - \frac{2}{10}$ = _____

4. $7\frac{3}{6} - 5\frac{1}{6}$ = _____

5. $\frac{7}{8} - \frac{4}{8}$ = _____

6. $\frac{6}{9} - \frac{2}{9}$ = _____

7. $\frac{2}{5} - \frac{1}{5}$ = _____

8. $\frac{4}{7} - \frac{3}{7}$ = _____

9. $\frac{9}{14} - \frac{5}{14}$ = _____

10. $\frac{8}{9} - \frac{2}{9}$ = _____

*SKILL: subtracting fractions and mixed numbers with the same denominator

Practice

✎ Subtract.

1. $6\frac{4}{10} - 2\frac{2}{10}$

2. $\frac{15}{16} - \frac{9}{16}$

3. $\frac{21}{12} - \frac{10}{12}$

4. $8\frac{7}{7} - 2\frac{4}{7}$

5. $\frac{6}{8} - \frac{1}{8}$

6. $\frac{8}{9} - \frac{7}{9}$

7. $14\frac{6}{7} - 7\frac{2}{7}$

8. $\frac{11}{12} - \frac{9}{12}$

9. $14\frac{8}{10} - 8\frac{3}{10}$

10. $16\frac{5}{8} - 6\frac{4}{8}$

11. $13\frac{19}{21} - 7\frac{7}{21}$

12. $\frac{10}{14} - \frac{7}{14}$

13. $32\frac{14}{5} - 14\frac{12}{5}$

14. $\frac{19}{27} - \frac{7}{27}$

15. $\frac{12}{24} - \frac{8}{24}$

16. $8\frac{12}{13} - 3\frac{5}{13}$

17. $29\frac{4}{10} - 16\frac{1}{10}$

18. $\frac{16}{18} - \frac{9}{18}$

19. $21\frac{21}{24} - 4\frac{3}{24}$

20. $\frac{8}{9} - \frac{4}{9}$

*SKILL: subtracting fractions and mixed numbers with the same denominator

Multiplying Fractions

To multiply fractions: Multiply the numerators and then multiply the denominators. $\frac{1}{2} \times \frac{3}{5} = \frac{3}{10}$

Multiply.

1. $\frac{1}{3} \times \frac{5}{4} =$ _____

2. $\frac{2}{3} \times \frac{3}{5} =$ _____

3. $\frac{3}{9} \times \frac{2}{7} =$ _____

4. $\frac{7}{9} \times \frac{5}{8} =$ _____

5. $\frac{3}{4} \times \frac{9}{10} =$ _____

6. $\frac{6}{7} \times \frac{7}{9} =$ _____

7. $\frac{1}{4} \times \frac{2}{3} =$ _____

8. $\frac{6}{9} \times \frac{3}{9} =$ _____

9. $\frac{2}{4} \times \frac{8}{12} =$ _____

10. $\frac{10}{12} \times \frac{2}{3} =$ _____

11. $\frac{1}{3} \times \frac{4}{8} =$ _____

12. $\frac{4}{5} \times \frac{4}{5} =$ _____

13. $\frac{6}{15} \times \frac{1}{3} =$ _____

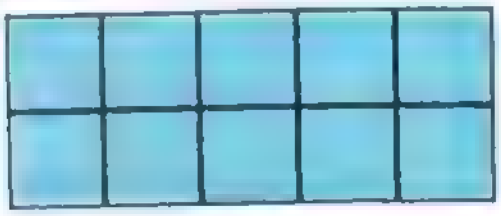
14. $\frac{3}{4} \times \frac{5}{7} =$ _____

15. $\frac{1}{2} \times \frac{2}{5} =$ _____

16. $\frac{3}{4} \times \frac{1}{2} =$ _____

*SKILL: multiplication of fractions

Working with Decimals

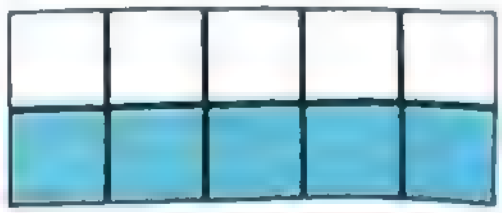


This shaded part is one whole. (1.0)

ones	tenths
1	0

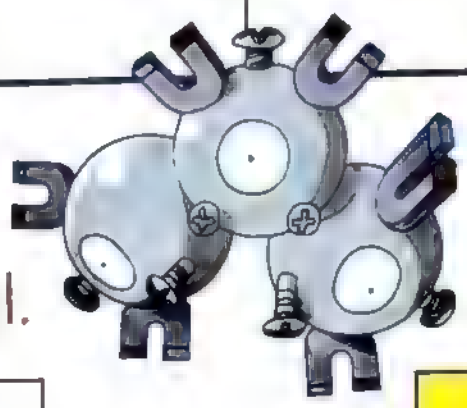
This shaded part is one tenth. (0.1)

ones	tenths
0	1

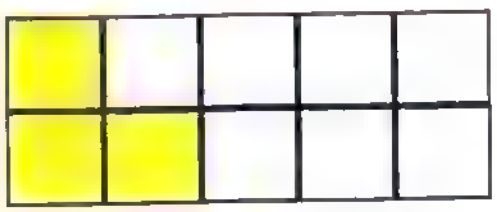


This shaded part is five tenths. (0.5)

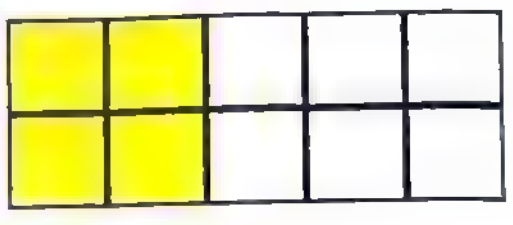
ones	tenths
0	5



Write each decimal.

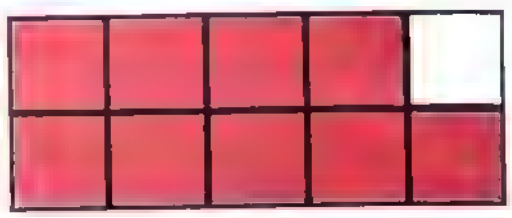


1. _____

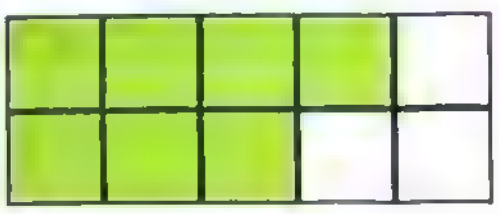


2. _____

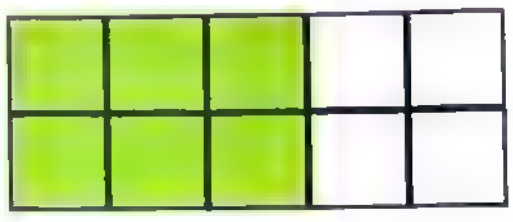
3. _____



4. _____



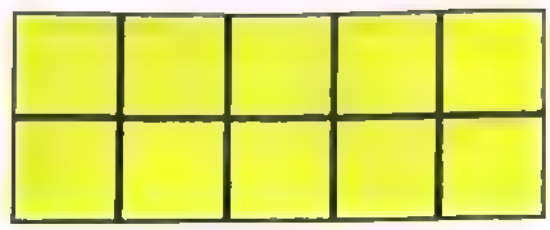
5. _____

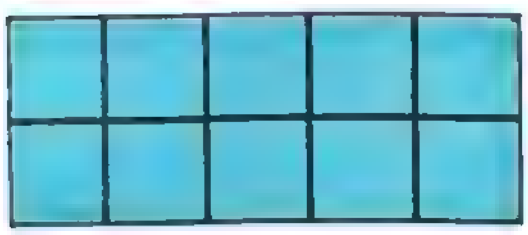


6. _____

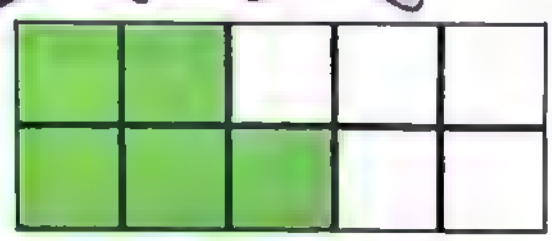
*SKILL: writing decimals in whole numbers and tenths

Practice

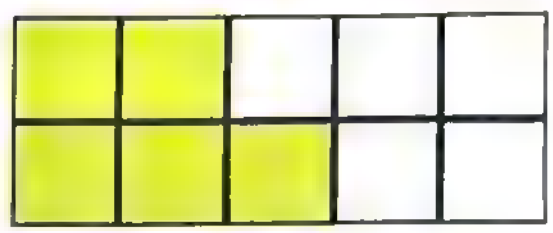




This shaded part is one whole. (1.0)



This shaded part is five tenths. (0.5)



This shaded part is one and five tenths. (1.5)

✎ Write each decimal.

1. three tenths _____

2. six and nine tenths _____

3. five and one tenth _____

4. seven tenths _____

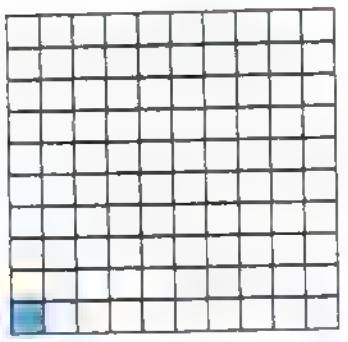
✎ Write each decimal in words. Remember that the decimal point means "and."

5. 8.7 eight and seven tenths
6. 0.5 five tenths
7. 0.7 _____
8. 0.2 _____
9. 1.8 _____
10. 3.2 _____
11. 9.7 _____
12. 6.1 _____
13. 1.5 _____
14. 0.4 _____
15. 4.3 _____

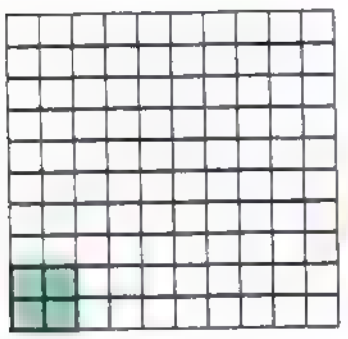
*SKILL: writing decimals in whole numbers and tenths in standard order

Hundredths

When 1 whole is divided into 100 equal parts, each part is called 1 hundredth. We write 1 hundredth as 0.01.



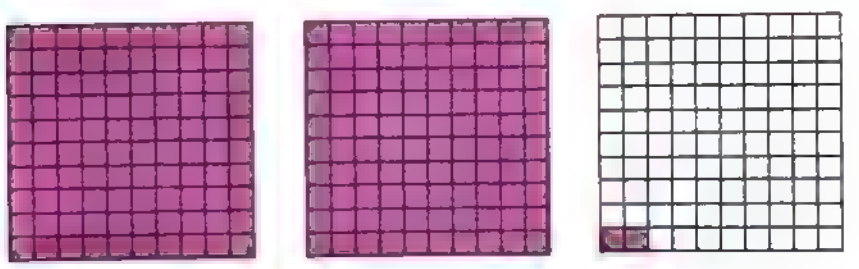
1 hundredth

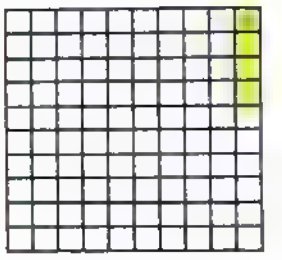


4 of the 100 equal parts are shaded. This figure shows four hundredths: 0.04

ones	tenths	hundredths
0	0	4

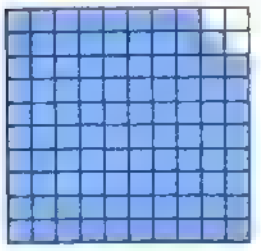
✎ Write each decimal for each picture.

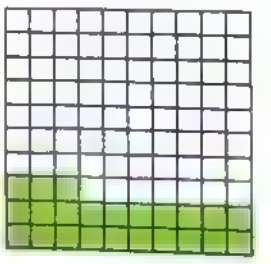


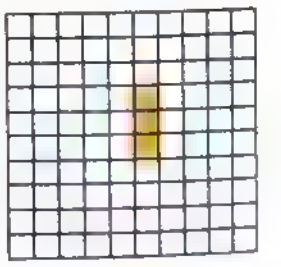


1. _____

2. _____







3. _____

4. _____

5. _____

*SKILL: reading and writing decimals to the hundredth place

Adding Decimals

1. Write the problem with the decimal points above each other.
2. Add the hundredths.
3. Add the tenths.
4. Add the whole numbers.
5. Remember to put the decimal point in the answer.

$$\begin{array}{r} 42.17 \\ +\ 36.24 \\ \hline 78.41 \end{array}$$

Add.

1. $\begin{array}{r} 96.3 \\ +\ 31.7 \\ \hline \end{array}$

2. $\begin{array}{r} 43.7 \\ +\ 8.4 \\ \hline \end{array}$

3. $\begin{array}{r} 37.9 \\ +\ 42.7 \\ \hline \end{array}$

4. $\begin{array}{r} 1.86 \\ +\ 1.37 \\ \hline \end{array}$

5. $\begin{array}{r} 9.48 \\ +\ 0.17 \\ \hline \end{array}$

6. $\begin{array}{r} 0.09 \\ 4.37 \\ +\ 9.86 \\ \hline \end{array}$

7. $\begin{array}{r} 6.03 \\ +\ 2.81 \\ \hline \end{array}$

8. $\begin{array}{r} 4.46 \\ 2.34 \\ +\ 0.02 \\ \hline \end{array}$

9. $\begin{array}{r} 5.36 \\ +\ 4.54 \\ \hline \end{array}$

10. $\begin{array}{r} 7.64 \\ +\ 1.89 \\ \hline \end{array}$

11. $\begin{array}{r} 4.35 \\ 0.89 \\ +\ 2.79 \\ \hline \end{array}$

12. $\begin{array}{r} 23.69 \\ +\ 6.45 \\ \hline \end{array}$

*SKILL: adding decimals

Subtracting Decimals

Step 1:
Write the problem with the decimal points above each other.

$$\begin{array}{r} 9.41 \\ -\ 3.76 \\ \hline \end{array}$$

Step 2:
Regroup and subtract hundredths.

$$\begin{array}{r} {}^{3}\cancel{9}.\cancel{4}^{11}1 \\ -\ 3.76 \\ \hline 5 \end{array}$$

Step 3:
Regroup and subtract tenths.

$$\begin{array}{r} {}^{8}\cancel{9}.{}^{13}\cancel{4}^{11}1 \\ -\ 3.76 \\ \hline .65 \end{array}$$

Step 4:
Subtract the whole numbers.

$$\begin{array}{r} {}^{8}\cancel{9}.{}^{13}\cancel{4}^{11}1 \\ -\ 3.76 \\ \hline 5.65 \end{array}$$

Subtract.

1. $\begin{array}{r} {}^{7}\cancel{8}.{}^{14}\cancel{3}^{11}1 \\ -\ 2.67 \\ \hline \mathbf{5.84} \end{array}$

2. $\begin{array}{r} 0.21 \\ -\ 0.14 \\ \hline \end{array}$

3. $\begin{array}{r} 10.39 \\ -\ 2.61 \\ \hline \end{array}$

4. $\begin{array}{r} 85.1 \\ -\ 26.7 \\ \hline \end{array}$

5. $\begin{array}{r} 8.98 \\ -\ 2.78 \\ \hline \end{array}$

6. $\begin{array}{r} 0.76 \\ -\ 0.18 \\ \hline \end{array}$

7. $\begin{array}{r} 8.98 \\ -\ 3.47 \\ \hline \end{array}$

8. $\begin{array}{r} 25.83 \\ -\ 17.21 \\ \hline \end{array}$

9. $\begin{array}{r} 6.03 \\ -\ 2.81 \\ \hline \end{array}$

10. $\begin{array}{r} 9.24 \\ -\ 8.73 \\ \hline \end{array}$

11. $\begin{array}{r} 14.04 \\ -\ 5.87 \\ \hline \end{array}$

12. $\begin{array}{r} 7.00 \\ -\ 2.89 \\ \hline \end{array}$

*SKILL: subtracting decimals

ANSWERS

Page 1

1. 573
2. 69
3. 299
4. 478
5. 4,059
6. 189
7. 1,844
8. 269
9. 2,758
10. 2,269
11. 585

Page 2

1. 259
2. 178
3. 4,888
4. 1,379
5. 1,988
6. 76
7. 2,589
8. 87
9. 1,768
10. 235
11. 178
12. 605
13. 1,251
14. 4,029
15. 2,474
16. 126

Page 3

1. 145, 423
2. 288, 827
3. 4,914, 9,723
4. 2,185, 3,714
5. 2,772, 6,714
6. 2,704, 4,807

Page 4

1. 288
2. 340
3. 225
4. 96
5. 192
6. 162
7. 48
8. 300
9. 882
10. 183
11. 468
12. 228

Page 5

1. 1,800
2. 1,716
3. 4,896
4. 35,388
5. 360
6. 1,296
7. 1,958
8. 34,752

Page 6

1. 15,892
2. 2,496
3. 23,556
4. 50,797
5. 4,725
6. 12,586
7. 4,420
8. 14,652
9. 27,584
10. 64,258
11. 6,026
12. 1,210
13. 2,275
14. 1,638
15. 1,240

Answer: Cinnabar Island

Page 7

1. 7	7. 5	13. 5	19. 5	25. 4
2. 9	8. 4	14. 3	20. 1	26. 4
3. 6	9. 9	15. 3	21. 8	27. 8
4. 9	10. 2	16. 5	22. 3	28. 8
5. 7	11. 7	17. 5	23. 5	29. 6
6. 6	12. 6	18. 6	24. 6	30. 9

Page 8

1. 28	7. 3	13. 6	19. 9	25. 5
2. 9	8. 8	14. 20	20. 7	26. 30
3. 5	9. 32	15. 8	21. 9	27. 81
4. 3	10. 1	16. 0	22. 36	28. 6
5. 35	11. 21	17. 28	23. 36	29. 6
6. 5	12. 36	18. 48	24. 40	

Page 9

Chart 1	Chart 2	Chart 3	Chart 4	Chart 5	Chart 6
2	1	3	4	1	6
0	9	8	1	0	1
4	3	6	6	2	9
7	5	2	9	3	4
3	0	1	0	5	7
9	4	5	8	4	3
5	7	4	5	8	8
6	2	7	3	6	5

Page 10

1. 20 R3
2. 101
3. 10 R4
4. 102
5. 10 R4
6. 109 R3
7. 40 R1
8. 150 R1
9. 13 R5

Page 11

1. 19 R1
2. 23 R3
3. 15 R1
4. 13 R4
5. 24 R1
6. 11 R5
7. 31 R2
8. 11 R2
9. 7 R4
10. 16 R1
11. 37 R1
12. 22 R2

Page 12

1. 193 R1
2. 420 R1
3. 123
4. 249 R1
5. 126 R5
6. 134 R1
7. 189
8. 137 R2
9. 117 R1
10. 155 R2

Page 13

1. 125 R2
2. 127
3. 115
4. 6 R3
5. 16 R1
6. 235
7. 315 R3
8. 117 R2
9. 55 R5
10. 152 R2
11. 150 R2
12. 140 R3

Answer: Old Amber

Page 14

1. 48, 16 average
2. 750, 250 average
3. 228, 76 average
4. 76, 19 average
5. 640, 128 average
6. 370, 74 average

Page 15

1. $\frac{1}{4}$
2. $\frac{2}{5}$
3. $\frac{4}{9}$
4. $\frac{2}{3}$
5. $\frac{3}{6}$
6. $\frac{5}{6}$
7. $\frac{0}{3}$
8. $\frac{2}{8}$
9. $\frac{3}{3}$

Page 16

1. <	5. =	9. >	13. >	17. >	21. >
2. >	6. <	10. <	14. <	18. >	22. =
3. <	7. >	11. >	15. =	19. <	23. >
4. >	8. >	12. <	16. <	20. <	24. <

Page 17

1. $\frac{2}{4}$
2. $\frac{4}{10}$
3. $\frac{24}{32}$
4. $\frac{12}{18}$
5. $\frac{25}{50}$
6. $\frac{21}{27}$
7. $\frac{24}{30}$
8. $\frac{63}{72}$
9. $\frac{2}{9}$
10. $\frac{2}{3}$
11. $\frac{7}{10}$
12. $\frac{7}{8}$
13. $\frac{1}{4}$
14. $\frac{8}{9}$
15. $\frac{1}{2}$
16. $\frac{8}{9}$

Page 18

1. $\frac{6}{8}$
2. $\frac{18}{24}$
3. $\frac{1}{3}$
4. $\frac{8}{9}$
5. $\frac{6}{7}$
6. $\frac{16}{24}$
7. $\frac{50}{100}$
8. $\frac{8}{24}$
9. $\frac{8}{9}$
10. $\frac{6}{24}$
11. $\frac{25}{30}$
12. $\frac{1}{2}$
13. $\frac{14}{16}$
14. $\frac{2}{5}$
15. $\frac{1}{4}$
16. $\frac{15}{30}$
17. $\frac{8}{14}$
18. $\frac{10}{35}$
19. $\frac{3}{10}$
20. $\frac{4}{12}$
21. $\frac{7}{49}$
22. $\frac{2}{4}$
23. $\frac{1}{6}$
24. $\frac{35}{56}$

Page 19

1. $3\frac{2}{4}$
2. $2\frac{2}{3}$
3. $1\frac{4}{6}$
4. $1\frac{2}{3}$
5. $4\frac{2}{4}$

Page 20

1. $1\frac{1}{7}$
2. $3\frac{1}{4}$
3. 2
4. 3
5. $2\frac{1}{8}$
6. $6\frac{1}{4}$
7. $1\frac{5}{6}$
8. $2\frac{1}{3}$
9. $9\frac{1}{3}$
10. $3\frac{3}{6}$
11. $3\frac{2}{5}$
12. $3\frac{5}{8}$
13. $1\frac{2}{7}$
14. $6\frac{2}{6}$
15. $4\frac{1}{2}$
16. $8\frac{2}{4}$
17. $3\frac{2}{3}$
18. $8\frac{2}{9}$

Page 21

1. $\frac{5}{8}$
2. $\frac{5}{7}$
3. $\frac{5}{9}$
4. $\frac{7}{9}$
5. $\frac{4}{5}$
6. $\frac{5}{6}$
7. $9\frac{6}{8}$
8. $5\frac{3}{5}$
9. $4\frac{4}{7}$

Page 22

1. $\frac{3}{4}$
2. $\frac{12}{16}$
3. $5\frac{6}{9}$
4. $\frac{4}{10}$
5. $7\frac{13}{20}$
6. $\frac{5}{8}$
7. $\frac{8}{14}$
8. $9\frac{7}{10}$
9. $5\frac{3}{4}$
10. $\frac{10}{14}$
11. $\frac{7}{9}$
12. $6\frac{8}{12}$
13. $20\frac{10}{15}$
14. $\frac{3}{9}$
15. $9\frac{5}{8}$
16. $7\frac{3}{6}$
17. $20\frac{14}{15}$
18. $3\frac{6}{8}$
19. $\frac{6}{7}$
20. $5\frac{4}{6}$

Page 23

1. $2\frac{2}{12}$
2. $\frac{5}{15}$
3. $\frac{2}{10}$
4. $2\frac{2}{6}$
5. $\frac{3}{8}$
6. $\frac{4}{9}$
7. $\frac{1}{5}$
8. $\frac{1}{7}$
9. $\frac{4}{14}$
10. $\frac{6}{9}$

Page 24

1. $4\frac{2}{10}$
2. $\frac{6}{16}$
3. $\frac{11}{12}$
4. $6\frac{3}{7}$
5. $\frac{5}{8}$
6. $\frac{1}{9}$
7. $7\frac{4}{7}$
8. $\frac{2}{12}$
9. $6\frac{5}{10}$
10. $10\frac{1}{8}$
11. $6\frac{12}{21}$
12. $\frac{3}{14}$
13. $18\frac{2}{5}$
14. $\frac{12}{27}$
15. $\frac{4}{24}$
16. $5\frac{7}{13}$
17. $13\frac{3}{10}$
18. $\frac{7}{18}$
19. $17\frac{18}{24}$
20. $\frac{4}{9}$

Page 25

1. $\frac{5}{12}$
2. $\frac{6}{15}$
3. $\frac{6}{63}$
4. $\frac{35}{72}$
5. $\frac{27}{40}$
6. $\frac{42}{63}$
7. $\frac{2}{12}$
8. $\frac{18}{81}$
9. $\frac{16}{48}$
10. $\frac{20}{36}$
11. $\frac{4}{24}$
12. $\frac{16}{25}$
13. $\frac{6}{45}$
14. $\frac{15}{28}$
15. $\frac{2}{10}$
16. $\frac{3}{8}$

Page 26

1. 0.3
2. 0.4
3. 0.3
4. 0.9
5. 0.7
6. 0.6

Page 27

1. 0.3
2. 6.9
3. 5.1
4. 0.7
5. eight and seven tenths
6. five tenths
7. seven tenths
8. two tenths
9. one and eight tenths
10. three and two tenths
11. nine and seven tenths
12. six and one tenth
13. one and five tenths
14. four tenths
15. four and three tenths

Page 28

1. 2.02
2. .04
3. 0.97
4. 0.23
5. .03

Page 29

1. 128.0
2. 52.1
3. 80.6
4. 3.23
5. 9.65
6. 14.32
7. 8.84
8. 6.82
9. 9.90
10. 9.53
11. 8.03
12. 30.14

Page 30

1. 5.84
2. 0.07
3. 7.78
4. 58.4
5. 6.20
6. 0.58
7. 5.51
8. 8.62
9. 3.22
10. 0.51
11. 8.17
12. 4.11

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Master Level

#68
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Grade 4-5

What is the missing number?

$$\frac{1}{2} = \frac{2}{\quad}$$

answer: 4

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Grade 4-5

What is the missing number?

$$\frac{3}{4} = \frac{\quad}{32}$$

answer: 24

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Grade 4-5

What is the missing number?

$$\frac{21}{24} = \frac{7}{\quad}$$

answer: 8

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Grade 4-5

Which is an improper fraction?

$$\frac{7}{3} \text{ or } \frac{9}{11}$$

answer: $\frac{7}{3}$

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Grade 4-5

Which is an improper fraction?

$$\frac{3}{2} \text{ or } \frac{5}{7}$$

answer: $\frac{3}{2}$

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Grade 4-5

What is the missing number?

$$\frac{32}{36} = \frac{8}{\quad}$$

answer: 9

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Change to a whole number.

$$\frac{24}{8}$$

answer: 3

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Grade 4-5

$$1\frac{1}{5}$$
$$+\ 3\frac{2}{5}$$

answer: $4\frac{3}{5}$

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#9 BLASTOISE™

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Grade 4-5

$$\frac{3}{8} + \frac{4}{8}$$

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Answer: $\frac{7}{8}$

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$$\begin{array}{r} \frac{4}{16} \\ +\ \frac{8}{16} \\ \hline \end{array}$$

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Answer: $\frac{12}{16}$

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$$\frac{9}{14} - \frac{5}{14}$$

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Answer: $\frac{4}{14}$

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$$\begin{array}{r} 14\frac{6}{7} \\ -\ 7\frac{2}{7} \\ \hline \end{array}$$

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Answer: $7\frac{4}{7}$

Grade 4-5

$$\frac{6}{9} \times \frac{3}{9}$$

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Answer: $\frac{18}{81}$

Grade 4-5

$$\frac{2}{4} \times \frac{8}{12}$$

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Answer: $\frac{16}{48}$

Grade 4-5

$$\begin{array}{r} 9.48 \\ +\ 0.17 \\ \hline \end{array}$$

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Answer: 9.65

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$$\begin{array}{r} 4.46 \\ 2.34 \\ +\ 0.82 \\ \hline \end{array}$$

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Answer: 7.62

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